

# Recombinant human VEGF 165 protein

Catalog Number: ATGP1248

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

207-371aa

### UniProt No.

P15692

### NCBI Accession No.

NP\_001020539.2

### Alternative Names

Vascular endothelial growth factor A isoform d, VPF, VEGF, VEGF-A

## PRODUCT SPECIFICATION

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### Molecular Weight

21.4 kDa (186aa) conformed by MALDI-TOF

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 7.5) 5mM DTT, 50 % glycerol, 200mM NaCl, 2mM EDTA

### Purity

> 90% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

Vascular endothelial growth factor (VEGF) is homodimeric, heparin-binding glycoprotein involved in both angiogenesis and vasculogenesis. VEGF is expressed as multiple alternately spliced isoforms of VEGF121, 165, 189 and 206. VEGF binds to the receptor tyrosine kinases VEGF R1 (Flt-1) and VEGF R2 (KDR/Flk-1) to activate signal transduction and regulate both physiological and pathological angiogenesis. Recombinant human

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VEGF165 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.

## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH M>APMAEGGGQ NHHEVVKFMD VYQRSYCHPI ETLVDIFQEY PDEIEYIFKP  
SCVPLMRCGG CCNDEGLECV PTEESNITMQ IMRIKPHQGQ HIGEMSFLQH NKCECRPKKD RARQENPCGP CSERRKHLFV  
QDPQTCKCSC KNTDSRCKAR QLELNERTCR CDKPRR

## General References

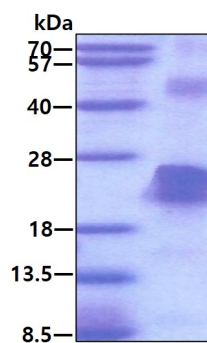
Yasuji ueda., et al. (2004) Cancer Chemother Pharmacol. 54(1):16-24.

Neufeld G., et al. (1999) FASEB J. 13(1):9-22.

## DATA

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### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.